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from the Woodsy Mnium by the very long slender teeth on the margins of the leaf. These teeth are two or three cells in length and extend to the *base* of the leaf. So marked is the length and distribution of these teeth that a hand lens alone suffices to distinguish the species when once one knows them. The cells of the leaves are also much larger than in the Woodsy Mnium.

The "beaked Mnium" (*M. rostratum* Schrad.) closely resembles the above species and is quite frequent, but the leaves are obtuse and mucronate instead of acuminate, and the operculum, if present, clearly marks the species by its long beak. Often growing with these species, but larger, without stolons and with two or three capsules in a cluster, is "Drummond's Mnium" (*M. Drummondii* Br. & Sch.). Another species sure to be met with in wet and swampy places is *Mnium punctatum*. Its leaves are so large that it could be easily mistaken for a flowering plant. It matures its capsules sparingly and earliest of all our species, in early or late April according to the locality and season. The operculum is long-beaked, the leaves are obovate, bordered and entire, and very broad and obtuse at the apex, slightly emarginate, with usually a slight apiculus and the costa nearly or quite reaching the apex. A form in which the costa ceases some distance below the apex is variety *elatum*. The cells of the leaves are so large as to be readily seen with a hand lens. Species of *Byrum* are likely to be mistaken for Mnium, but in Mnium the cells are little, if any, longer than broad, while in *Bryum* they are usually much longer than broad. In our next issue we hope to give a key to all our eastern species with their distribution.—
A. J. G.

NOTEWORTHY AMERICAN MOSSES.

IN THE number of the *Minnesota Botanical Studies*, published in May, 1897, Mr. J. M. Holzinger has some very valuable notes on "The Genus *Coscinodon*." He gives the following distinctions for separating the troublesome species *C. Wrightii* and *C. Rauli*.

C. Wrightii is silvery-green from the presence of the much lengthened hair-points on the upper leaves, which stand erect. It grows in small, dense cushions of a lighter color than *C. Rauli*. The hair points while diminishing in length toward the base of the stem, are still distinctly present and in the middle of young

stems the hair-points are as long as the leaves. Leaves *erect-appressed*, the blades distinctly spoon-shaped all along the stem. In section the leaves are uniformly and evenly concave, the costa projecting evenly above and below the lamina except at apex where it projects on the under side alone; costa with a single row of large cells across the *upper surface*, continuous with the leaf cells.

C. Raui is less silvery, there being fewer long hairs and is usually in looser, more extended patches; coarser and more branching; the hair-points discontinue below the upper third of the stem in young plants; stem leaves *obliquely ascending*, spreading with a distinct keel on the under side. In section the costa is *deeply furrowed* above.

It is stated that *C. Renauldi* Cardot is not sufficiently distinct from *C. Raui* on the authority of Cardot himself.

Mr. Holzinger also publishes *C. Wrightii*, var. *brevis*, Holzinger. "Monœcious; simple or branching, one of the branches usually terminating in the antheridial, the other in the arche-gonial bud; leaves crowded toward the top of the stem into a terminal bud, rapidly reduced to scales so that the stem below the middle is nearly naked; leaves not distinctly spoon-shaped." Winona, Minn., *Holzinger*.

In the issue of the same publication for June 15, 1898, M. Jules Cardot publishes *Fontinalis Holzingeri*. "Of the group *Heterophyllæ* related to *F. Missouriica* Card., but with leaves more rigid, cells longer, not or scarcely flexuose, strongly chlorophyllose, marginal firm." Northeastern Minn., *Holzinger*.

In the same paper Mr. Holzinger shows conclusively that *Homalia Jamesii*, Schimp, is at most only a variety of *H. trichomanoides* (Schreb.) Br. & Sch., the only difference being in the more obtuse leaves of the American form, which character even is quite variable.

H. Macounii Kindb., is also given as a synonym of the variety *Jamesii*.

MOSESSES FOR DISTRIBUTION TO THE CHAPTER.

By A. J. Grout. *Mnium sylvaticum*, *M. cuspidatum*, *M. punctatum* st., and *M. rostratum* st. for 10 cents. By Miss Cora H. Clarke, 91 Mt. Vernon street, Boston, Mass., any or all of the allowing species for a self-addressed stamped envelope: *Pottia truncatula*, *Gerorgia pellucida*, *Pogonatum tenue*, *Anomodon rostratus*.